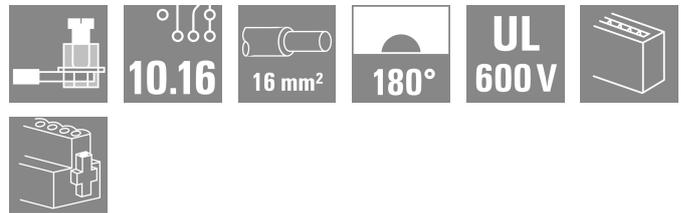


BUZ 10.16IT/03/180MF2SH160 AG BK BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image



Similar to illustration

OMNIMATE Power for IT networks – scalable to 50 kVA
Tailor-made solutions for special requirements
More standard-compliance means fewer compromises:
OMNIMATE Power for IT networks has integrated features incorporated as standard across the range. This makes the design-in and approvals process simpler and makes them safer and more reliable in operation.
Results for the application and advantages for the user: unlimited use in 400-V IT systems and touch safety according to IEC 61800-5-1 (+ 5.5 mm). The self-snapping one-handed safety flange enables intuitive and safe usage. Operational reliability is guaranteed by the automatic interlock feature during the plug-in process.
In conclusion: You need no additional device covering. The application-oriented design means that no compromises are necessary during the approval process. Including pre-assembled pluggable shield connection for large area shielding in your application.

General ordering data

| | |
|-----------------|---|
| Version | PCB plug-in connector, female plug, 10.16 mm, Number of poles: 3, 180°, Clamping yoke connection, Clamping range, max. : 16 mm ² |
| Order No. | 2627330000 |
| Type | BUZ 10.16IT/03/180MF2SH160 AG BK BX |
| GTIN (EAN) | 4050118631210 |
| Qty. | 20 items |
| Product data | IEC: 1000 V / 78.3 A / 0.2 - 16 mm ² UL: 600 V / 60 A / AWG 22 - AWG 4 |
| Delivery status | Discontinued |

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Technical data
Dimensions and weights

Net weight 0 g

Environmental Product Compliance

RoHS Compliance Status Compliant without exemption
 REACH SVHC No SVHC above 0.1 wt%

System Parameters

| Product family | | Type of connection | |
|--|--------------------------|--|--------------------|
| OMNIMATE Power - series BU/SU 10.16IT | | Field connection | |
| Wire connection method | Clamping yoke connection | Pitch in mm (P) | 10.16 mm |
| Pitch in inches (P) | 0.400 " | Conductor outlet direction | 180° |
| Number of poles | 3 | L1 in mm | 30.48 mm |
| L1 in inches | 1.200 " | Number of rows | 1 |
| Pin series quantity | 1 | Rated cross-section | 16 mm ² |
| Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch | Touch-safe protection acc. to DIN VDE 0470 | IP 20 |
| Volume resistance | 4.50 mΩ | Can be coded | Yes |
| Stripping length | 12 mm | Tightening torque, min. | 1.2 Nm |
| Tightening torque, max. | 2 Nm | Clamping screw | M 4 |
| Screwdriver blade standard | DIN 5264, ISO 8764/2-PZ | Plugging cycles | ≤ 50 |
| Plugging force/pole, max. | 14.5 N | Pulling force/pole, max. | 14.5 N |

Material data

| Insulating material | | Colour | |
|---------------------------------------|-----------|---------------------------------------|---------------|
| PA GF | | black | |
| Colour chart (similar) | RAL 9011 | Insulating material group | I |
| Comparative Tracking Index (CTI) | ≥ 600 | Insulation resistance | ≥ 108 Ω |
| Moisture Level (MSL) | | UL 94 flammability rating | V-0 |
| Contact material | Cu-alloy | Contact surface | silver-plated |
| Layer structure of plug contact | ≥ 3 μm Ag | Storage temperature, min. | -40 °C |
| Storage temperature, max. | 70 °C | Operating temperature, min. | -50 °C |
| Operating temperature, max. | 130 °C | Temperature range, installation, min. | -25 °C |
| Temperature range, installation, max. | 130 °C | | |

Conductors suitable for connection

| | |
|--|---------------------|
| Clamping range, min. | 0.2 mm ² |
| Clamping range, max. | 16 mm ² |
| Wire connection cross section AWG, min. | AWG 22 |
| Wire connection cross section AWG, max. | AWG 4 |
| Solid, min. H05(07) V-U | 0.2 mm ² |
| Solid, max. H05(07) V-U | 16 mm ² |
| Stranded, min. H07V-R | 6 mm ² |
| Stranded, max. H07V-R | 16 mm ² |
| Flexible, min. H05(07) V-K | 0.5 mm ² |
| Flexible, max. H05(07) V-K | 16 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, 0.25 mm ² min. | |
| w. plastic collar ferrule, DIN 46228 pt 4, 16 mm ² max. | |
| w. wire end ferrule, DIN 46228 pt 1, 0.25 mm ² min. | |

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Technical data

w. wire end ferrule, DIN 46228 pt 1, 16 mm²
 max.

Plug gauge in accordance with EN 60999 a x b; ø 5.3mm (B6)

| | | | |
|---------------------|--|------------------------------|-----------------------------|
| Clampable conductor | Cross-section for conductor connection | Type | fine-wired |
| | | nominal | 0.5 mm ² |
| wire end ferrule | | Stripping length | nominal 14 mm |
| | | Recommended wire-end ferrule | H0.5/18 OR |
| Clampable conductor | Cross-section for conductor connection | Type | fine-wired |
| | | nominal | 1 mm ² |
| wire end ferrule | | Stripping length | nominal 15 mm |
| | | Recommended wire-end ferrule | H1.0/18 GE |
| Clampable conductor | Cross-section for conductor connection | Type | fine-wired |
| | | nominal | 1.5 mm ² |
| wire end ferrule | | Stripping length | nominal 15 mm |
| | | Recommended wire-end ferrule | H1.5/18D SW |
| | | Stripping length | nominal 12 mm |
| | | Recommended wire-end ferrule | H1.5/12 |
| Clampable conductor | Cross-section for conductor connection | Type | fine-wired |
| | | nominal | 0.75 mm ² |
| wire end ferrule | | Stripping length | nominal 14 mm |
| | | Recommended wire-end ferrule | H0.75/18 W |
| Clampable conductor | Cross-section for conductor connection | Type | fine-wired |
| | | nominal | 2.5 mm ² |
| wire end ferrule | | Stripping length | nominal 14 mm |
| | | Recommended wire-end ferrule | H2.5/19D BL |
| | | Stripping length | nominal 12 mm |
| | | Recommended wire-end ferrule | H2.5/12 |
| Clampable conductor | Cross-section for conductor connection | Type | fine-wired |
| | | nominal | 4 mm ² |
| wire end ferrule | | Stripping length | nominal 12 mm |
| | | Recommended wire-end ferrule | H4.0/12 |
| | | Stripping length | nominal 14 mm |
| | | Recommended wire-end ferrule | H4.0/20D GR |
| Clampable conductor | Cross-section for conductor connection | Type | fine-wired |
| | | nominal | 6 mm ² |
| wire end ferrule | | Stripping length | nominal 14 mm |
| | | Recommended wire-end ferrule | H6.0/20 SW |
| | | Stripping length | nominal 12 mm |
| | | Recommended wire-end ferrule | H6.0/12 |
| Clampable conductor | Cross-section for conductor connection | Type | fine-wired |
| | | nominal | 10 mm ² |
| wire end ferrule | | Stripping length | nominal 12 mm |
| | | Recommended wire-end ferrule | H10.0/12 |
| | | Stripping length | nominal 15 mm |
| | | Recommended wire-end ferrule | H10.0/22 EB |
| Clampable conductor | Cross-section for conductor connection | Type | fine-wired |

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Technical data

| | | | |
|------------------|------------------------------|-----------------------------|--------------------|
| | | nominal | 16 mm ² |
| wire end ferrule | Stripping length | nominal | 12 mm |
| | Recommended wire-end ferrule | H16.0/12 | |
| | Stripping length | nominal | 15 mm |
| | Recommended wire-end ferrule | H16.0/22 GN | |

Reference text Length of ferrules is to be chosen depending on the product and the rated voltage.

Rated data acc. to IEC

| | | | |
|---|------------------------|---|--------------------|
| tested acc. to standard | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C) | 78.3 A |
| Rated current, max. number of poles (Tu=20°C) | 67.9 A | Rated current, min. number of poles (Tu=40°C) | 70.6 A |
| Rated current, max. number of poles (Tu=40°C) | 61.3 A | Rated voltage for surge voltage class / pollution degree II/2 | 1000 V |
| Rated voltage for surge voltage class / pollution degree III/2 | 1000 V | Rated voltage for surge voltage class / pollution degree III/3 | 1000 V |
| Rated impulse voltage for surge voltage class/ pollution degree II/2 | 6 kV | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 8 kV |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 8 kV | Short-time withstand current resistance | 3 x 1 s mit 1000 A |
| Creepage distance, min. | 15.1 mm | Clearance, min. | 15.1 mm |

Rated data acc. to CSA

| | | | |
|-----------------------------------|--------|-----------------------------------|-------|
| Rated voltage (Use group B / CSA) | 600 V | Rated voltage (Use group C / CSA) | 600 V |
| Rated voltage (Use group D / CSA) | 600 V | Rated current (Use group B / CSA) | 60 A |
| Rated current (Use group C / CSA) | 60 A | Rated current (Use group D / CSA) | 5 A |
| Wire cross-section, AWG, min. | AWG 22 | Wire cross-section, AWG, max. | AWG 4 |

Rated data acc. to UL 1059

| | | | |
|---------------------------------------|--------|---------------------------------------|-------|
| Rated voltage (Use group B / UL 1059) | 600 V | Rated voltage (Use group C / UL 1059) | 600 V |
| Rated voltage (Use group D / UL 1059) | 600 V | Rated current (Use group B / UL 1059) | 60 A |
| Rated current (Use group C / UL 1059) | 60 A | Rated current (Use group D / UL 1059) | 5 A |
| Wire cross-section, AWG, min. | AWG 22 | Wire cross-section, AWG, max. | AWG 4 |

Packing

| | | | |
|------------|-----------|-----------|-----------|
| VPE length | 352.00 mm | VPE width | 162.00 mm |
| VPE height | 105.00 mm | | |

Important note

| | |
|----------------|--|
| IPC conformity | Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. |
| Notes | <ul style="list-style-type: none"> • Additional variants on request • Rated current related to rated cross-section & min. No. of poles. • Wire end ferrule with plastic collar to DIN 46228/4 • Wire end ferrule without plastic collar to DIN 46228/1 • P on drawing = pitch • Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards. • For all applications with flange we recommend to fix the pin header with the help of the soldering flange or a self-tapping screw on the board. |

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Technical data

- In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load
- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC002638 | ETIM 9.0 | EC002638 |
| ETIM 10.0 | EC002638 | ECLASS 14.0 | 27-46-02-02 |
| ECLASS 15.0 | 27-46-02-02 | | |

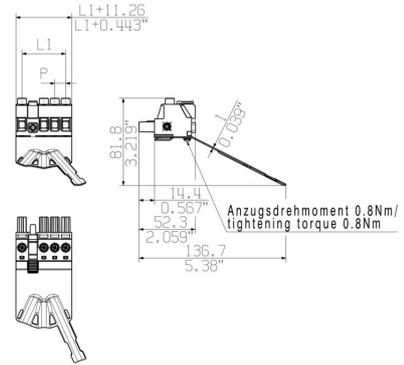
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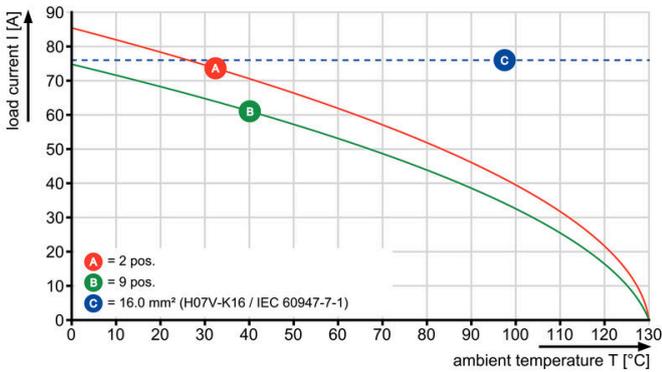
Drawings

Dimensional drawing



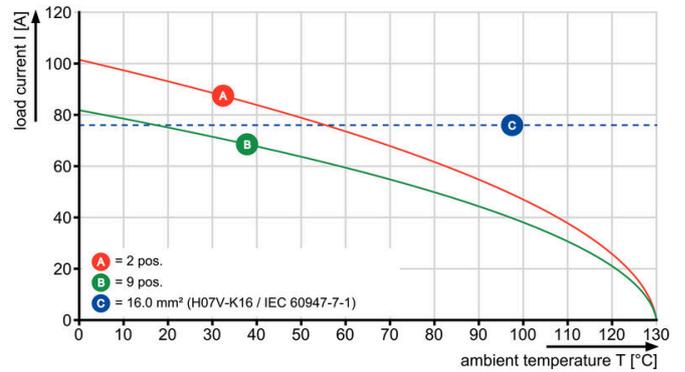
Graph

BUZ 10.16HP/./180 - SU 10.16HP/./90



Graph

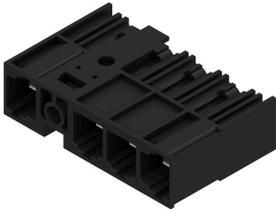
BUZ 10.16HP/./180 - SU 10.16HP/./180



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Counterpart**SU 10.16IT 270MF**

Male header with middle solder flange fastening in 10.16 pitch for 400-V IT systems according to IEC 61800-5-1. UL approval in compliance with UL840 (600 V) when using leading contact. When used together with the BUZ 10.16 IT, they comply with the expanded requirements for 5.5 mm of touch protection with IT systems (400 V relative to earth), according to IEC 61800-5-1. The middle-flange interlock feature decreases the space required by one pitch width when compared to other standard solutions. Available on request with screw flange or without flange.

General ordering data

| Type | SU 10.16IT/03/270MF2 3... | Version |
|------------|----------------------------|---|
| Order No. | 1157320000 | PCB plug-in connector, male header, closed side, Middle flange, THT |
| GTIN (EAN) | 4032248944927 | solder connection, 10.16 mm, Number of poles: 3, 270°, Solder pin |
| Qty. | 42 ST | length (l): 3.5 mm, silver-plated, black, Box |

SU 10.16IT 90MF

Male header with middle solder flange fastening in 10.16 pitch for 400-V IT systems according to IEC 61800-5-1. UL approval in compliance with UL840 (600 V) when using leading contact. When used together with the BUZ 10.16 IT, they comply with the expanded requirements for 5.5 mm of touch protection with IT systems (400 V relative to earth), according to IEC 61800-5-1. The middle-flange interlock feature decreases the space required by one pitch width when compared to other standard solutions. Available on request with screw flange or without flange.

General ordering data

| Type | SU 10.16IT/03/90MF2 3.5... | Version |
|------------|----------------------------|---|
| Order No. | 1156670000 | PCB plug-in connector, male header, closed side, Middle flange, THT |
| GTIN (EAN) | 4032248943654 | solder connection, 10.16 mm, Number of poles: 3, 90°, Solder pin |
| Qty. | 42 ST | length (l): 3.5 mm, silver-plated, black, Box |

SU 10.16HP/270MF

Single-row, high-performance male header for side-by-side mounting without sacrificing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, with unique coding diversity and additional fastening in the flange. 3.5 mm pin length is optimised for wave soldering, plug-in direction 270° to solder pins.

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Counterpart

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General ordering data

| | | |
|------------|----------------------------|--|
| Type | SU 10.16HP/03/270MF2 3... | Version |
| Order No. | 2580830000 | PCB plug-in connector, male header, THT solder connection, 10.16 |
| GTIN (EAN) | 4050118589672 | mm, Number of poles: 3, 270°, Solder pin length (l): 3.5 mm, tinned, |
| Qty. | 42 ST | black, Box |

SU 10.16HP/90MF



Single-row, high-current male header, for side-by-side mounting without sacrificing any poles, or with patented flange for fast locking without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, with unique coding diversity and additional fastening in the flange. 3.5 mm pin length is optimised for wave soldering, plug-in direction 90° to solder pins.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | SU 10.16HP/03/90MF2 3.5... | Version |
| Order No. | 2580390000 | PCB plug-in connector, male header, closed side, Middle flange, THT |
| GTIN (EAN) | 4050118589344 | solder connection, 10.16 mm, Number of poles: 3, 90°, Solder pin |
| Qty. | 42 ST | length (l): 3.5 mm, silver-plated, black, Box |